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HARVARD SCHOOL OF
DENTAL MEDICINE

25 SHATTUCK STREET
BOSTON, MASSACHUSETTS

AIMS, GENERAL INFORMATION
ANNOUNCEMENT OF COURSES

1957–1958

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Dental Education at Harvard University

IN 1941 Harvard University instituted a revised plan for dental education based on the conviction that modern dentistry needs practitioners with a broader understanding of human biology, wider clinical experience, and an intimate knowledge of the methods and aims of dental research. To implement its new program (and with the aid of funds assembled from various sources) the University increased the full-time teaching staff of its dental school and inaugurated a large-scale program of dental research. The curriculum was altered to place additional emphasis on the biological aspects of dentistry, to attack dental problems from the point of view of prevention as well as treatment and to permit closer correlation of clinical practice with the basic sciences.

During the first two years advantage is taken of the excellent facilities of the Harvard Medical School for instruction of Harvard dental students in anatomy, biochemistry, pathology, and the other preclinical sciences. Harvard dental and medical students, thus jointly taught, acquire the same basic knowledge of the whole human organism, without regard to the specialty which each will later pursue. Both medical and dental students are observed to emerge with a heightened respect and understanding for each other's province.

During the third and fourth years the dental students take the greater part of their clinical work in the clinic of the School of Dental Medicine. Here a high faculty-student ratio permits the staff to teach by the tutorial method. Individual supervision, small

group conferences, and seminars largely replace didactic lectures. As much instruction as possible is given on the clinic floor at the chairside. And, because the classes are small, the faculty can combine to teach all the various branches of dentistry in a single clinic. Thus the student learns from the very beginning to apply the different types of dental treatment in relation to each other and to a patient's total needs.

To broaden their clinical experience students participate in the School's "mouth clinic" at the Massachusetts General Hospital. Here they treat a greater variety of oral and head cases than are available at the usual dental school out-patient clinic, serving as assistants to the oral surgeon in the operating room and administering ward care. They also have ample opportunity at the Children's Hospital to observe children's growth and development in health and disease. Here the student studies dental ills in their incipient form, in keeping with present day emphasis on checking disease in the child as well as alleviation of the ills of the adult.

To familiarize them with dental research, the students are introduced to the various studies in progress in the School's several laboratories. Here the staff conducts numerous investigations into the chemistry and physiology of teeth and oral tissues, the effects of dietary constituents and hormones on growth and development, the use of radioactive isotopes, and other related subjects. Students are encouraged to take part in these projects during their free time, and each one is required to undertake an elective project in clinical or laboratory research.

In their hospital and laboratory training, as in their work at the School's clinic, the small teaching groups allow close individual supervision and flexible methods of instruction. Under this system the teaching can be adapted to the needs of the particular student, and he in turn can progress as rapidly as he assimilates course material. Besides its own staff and those of the Medical School and the teaching hospitals, the dental school draws for instruction upon the faculties of the Harvard School of Public Health and the science departments of the University in Cambridge. With such rich opportunities open to him, it is literally true that a student's

own initiative is the largest determinant of just how much education he will acquire at the Harvard School of Dental Medicine, beyond minimum requirements.

The recipient of the degree of D.M.D. from the School of Dental Medicine is well prepared to meet State Board requirements for license to practice dentistry and to serve with distinction as a practitioner of general dentistry, applying the latest discoveries of dental science to the continuing fight against oral disease. Graduates are also ready for the advanced study and experience recommended for any of the specialties of dentistry. They are also well-equipped to begin teaching or research careers and to work in effective collaboration with their medical colleagues.

ADMINISTRATIVE OFFICERS

President: NATHAN MARSH PUSEY, PH.D., LL.D. (hon.), L.H.D. (hon.).
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Office, Administration Building, Medical School.

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Claude Alvin Villee, Jr., ph.d., *Assistant Professor of Biological Chemistry.*

Paul Charles Zamecnik, m.d., *Collis P. Huntington Professor of Oncologic Medicine.*

GENERAL INFORMATION

BUILDINGS

The Dental Building on Longwood Avenue contains the Dental Clinic, Dental Library, lecture and conference rooms, and research laboratories. Also included are individual laboratories for fellows in training, animal quarters, cold rooms, warm room, special instruments room housing an electron microscope, and laboratory areas for studies involving use of radioactive materials. The Clinic facilities consist of a main clinic with thirty-two chairs, each with instrument cabinet and chair-side bench equipped for general dentistry; a dental laboratory, technic laboratory and preparation room; a dental surgery clinic with two chairs and recovery room; an X-ray and photography clinic with three chairs; and two special examining rooms. Special instruments include Airdent Units and a Cavitron. The Dental Library consists of two adjoining rooms, with facilities for fifty or more readers.

Next door are the five large buildings of the Medical School. Building A (Administration) contains the offices of the Dean of the Faculty of Medicine and the Dean of the School of Dental Medicine, the main Medical Library, and the Warren Museum. Building B accommodates the Departments of Anatomy, Histology, and Embryology. Building C provides space for the Departments of Physiology, Physical Chemistry, Biochemistry, and Experimental Surgery. Building D is occupied by the Departments of Bacteriology, Biophysics, Pathology, Preventive Medicine and also laboratories of the Department of Medicine. Building E houses the Departments of Pharmacology, Legal Medicine, and Tropical Public Health.

HOSPITAL FACILITIES

The Massachusetts General Hospital. This is a general hospital founded in 1811 and ever since associated with the Medical School. There are services in medicine, dentistry, surgery, pediatrics, dermatology, genito-urinary diseases, orthopedics, gynecology, neurology, neurosurgery, anesthesia, and psychiatry, all of which are used in giving instruction in these special subjects in the Schools of Medicine and Dental Medicine.

The Children's Hospital is located on Longwood Avenue adjacent to the Medical School. This is a generalized hospital for the care of the younger age group. The hospital maintains medical, surgical, neurosurgical, dental, orthopedic, radiologic, psychiatric, and pathological services with their associated specialties. All services are available for teaching purposes.

The Forsyth Dental Infirmary for Children, located at 140 The Fenway, became affiliated with the School of Dental Medicine in 1955. In addition to the large Central Clinic there are services in oral surgery, orthodontia, and pediatric dentistry. Students have the opportunity to acquaint themselves with the flow of ambulatory patients presenting a broad spectrum of oral diseases. The opportunities for students to carry out clinical observation of an investigative nature at the Forsyth are excellent. The Forsyth also affords opportunities for summer experience for students and an internship base for dental graduates.

Hospitals used for the teaching of physical diagnosis in the second year include the Massachusetts General Hospital, the Boston City Hospital, the Peter Bent Brigham Hospital, the Beth Israel Hospital, Boston Lying-in Hospital, the House of the Good Samaritan, and Long Island Hospital. Further description of all these hospitals will be found in the combined catalogue of the Medical School and the School of Dental Medicine.

LIBRARIES

The School of Dental Medicine Library, at 188 Longwood Avenue, is open from 9 A.M. until 5 P.M. (with one hour for lunch) Monday through Friday, 7 P.M. until 10 P.M. Monday through Thursday evenings, and 9 A.M. until 12 noon two Saturdays a month. The present number of volumes in the library is 5,530 and in addition there are 1,885 pamphlets and 161 current periodicals on file. The librarian is Miss Maisie E. Parsons. Dr. Melvin I. Cohen is Chairman of the Library Committee.

The joint library of the Medical School and the School of Public Health is on the second floor of the Administration Building, and in the other buildings are branch libraries. This library is open from 9 A.M. until 10 P.M., on Saturdays from 9 A.M. until 5 P.M., and on Sundays from 2 P.M. until 6 P.M. The present number of volumes in

the library is 115,590 and in addition there are 213,707 pamphlets and about 1,000 current periodicals on file.

REQUIREMENTS FOR ADMISSION

Candidates for admission to the first-year class must present evidence satisfactory to the Committee on Admission, not simply that they have passed the courses necessary to fulfill the requirements, but also that their college work and other credentials have been of such character as to give promise of work of high quality in the dental course. Superior students may, in selected cases, be considered acceptable for admission after only two years of college work. Occasional students with three years of preparation are accepted but it is seldom that students are accepted with less than this amount of preparation. In practice, the Committee strongly recommends four years of college work. In all instances, the final judgment as to the admissibility of any student rests with the Committee on Admission.

In general, the School considers for admission to its classes students in good standing in arts or in sciences in colleges listed as approved in the *Higher Education Directory*, published by the Office of Education of the U.S. Department of Health, Education and Welfare.

Applications may be obtained at the Dean's Office approximately one year prior to the expected date of admission. Applications will not be considered from candidates who have been refused admission on two prior occasions. The size of the class of the School of Dental Medicine is limited by Faculty rule.

A reasonable level of good health is required.

Required Courses: In order to meet the present legal requirements of state licensing boards and to have the needed basic understanding, the following specific college credits must be secured:

Biology: The student must take a general course in biology which should emphasize the structure, function, natural history and evolution of plants and animals. A course in embryology is distinctly recommended but bacteriology, human anatomy and histology will not be considered as meeting the biology requirements. A satisfactory course should show college credits of at least eight semester hours.

Chemistry: The student should acquire a sound understanding of the basic principles of chemistry, both inorganic and organic.

He must have taken not less than 16 semester hours of chemistry, which should be about equally divided between inorganic and organic chemistry. Biochemistry will not be accepted as part of these requirements.

To be adequately prepared for the work in chemistry in the dental school, it is desirable that the student have had experience with the application of chemical laws to gases and solutions, and some experience with quantative techniques (particularly volumetric analysis.)

Physics: The student should acquire an understanding of the general principles of physical laws and phenomena, and have experience in mechanics, heat, light, sound and electricity. College credit for eight semester hours should be secured.

These science courses must be accompanied by laboratory work taken as a part of the college courses. A semester hour, as used above, we consider in general to be one hour of lecture or recitation, or two hours of laboratory work per week, for one-half year of sixteen weeks.

English: The student must have facility in the use of English in speech and composition. A one year course in which composition is included is acceptable but two years of college English are recommended. Even though, in the judgment of the authorities of the applicant's college, he has obtained enough training in secondary school to be exempted from the usual beginning course in English, an advanced course in English is strongly recommended.

Modern Language: The student should have a reading knowledge of a modern language important to dentistry in addition to English. A reading knowledge presupposes two years of high school and one year of college work, or two years of college work. The Committee on Admission suggests French, German, Spanish, Italian, or Russian as suitable languages. Even though, in the judgment of the authorities of the applicant's college, he has obtained enough training in secondary school to fulfill their language requirement for a Bachelor's degree, an advanced course in the same foreign language is strongly recommended.

The Dental Aptitude Test is a requirement for admission to this School. It is administered in October, January and April. Applica-

tion blanks may be secured from the Division of Educational Measurements, Council on Dental Education, American Dental Association, 222 East Superior Street, Chicago 11, Illinois.

Interviews are looked upon as an important part of the total evaluation of candidates for admission to the School and may be required of any candidate.

Admission to Advanced Standing

The third year class may be increased by a small number of transfer students who have completed the equivalent of the first two years at the Harvard School of Dental Medicine. Vacancies in the second year class may also be filled by transferring students. No students may transfer to the fourth year class without a special vote of the faculty in each instance.

Students of high scholastic standing will be considered. They must be recommended as promising candidates by the Dean of the school from which they come. Full credit for work done elsewhere will be allowed as a rule, but in certain cases additional work may be required. Ordinarily such requirements can be completed during the summer holiday preceding transfer. All the requirements for the first year class must have been fulfilled by applicants for advanced standing.

Admission for Servicemen

The Harvard School of Dental Medicine welcomes inquiries regarding future applications from men who are now on active duty with the armed forces. The Committee on Admission cannot act on applications from men still on active duty and not released from service, but the applications of men on terminal leave or whose date of discharge is definitely known may be considered by the Committee. The qualifications for admission remain essentially the same for veterans as for civilian applicants. Before the acceptance of a veteran can become final, the applicant will need to submit photostatic copies of discharge papers or similar evidence of honorable release. Where available the applicant should file also a copy of his "Separation and Qualification Record" on which is listed in detail his service record and training. If the Committee does not act favorably on an application, certifications furnished by the applicant may be returned at his request. It is

the responsibility of the applicant to take the necessary steps toward obtaining government benefits for servicemen eligible for them under Public Laws 16 ("Rehabilitation"), 550 (Korean "G.I. Bill") or 894 (Korean Rehabilitation).

The Veterans' Affairs section of the Comptroller's Office forms a central point for answering inquiries and advising veterans. On request, this office can furnish a brief statement of the necessary procedures required by the Veterans Administration to receive such benefits. For matters relating to veterans' affairs and not connected directly with the School of Dental Medicine, the applicant should feel free to write to Veterans' Affairs, Comptroller's Office, Lehman Hall, Cambridge 38, Massachusetts.

GENERAL REGULATIONS

In order that the time of study shall count as a full year, students must register on the first day of the session. All students will be notified during summer vacation of the exact time and place of registration.

A fee of $10 is charged for late registration.

Promotion Boards:

First and second year students. Promotion Boards for the first and second years are composed of one representative from each department in the Medical School responsible for grading the student, plus the Dean and Associate Dean of the School of Dental Medicine who are non-voting members. Promotion from one class to another is contingent upon the satisfactory completion of the required work of each year. In each course, when indicated, students will be informed by their instructors as early as possible when the progress of their work is unsatisfactory. Opportunity will be given to students to appeal the decision of a Promotion Board either at a special meeting or at the next regular meeting of the Board. Appeals must be sent to the Chairman of the Promotion Board, Harvard Medical School and, to be valid, be received by him within two weeks after the issuance of a Promotion Board's notice of formal action.

Third and fourth year students. The Promotion Boards in the School of Dental Medicine are composed of five members representing the various divisions of dental teaching. The duties consist of evaluating unsatisfactory student performance and acting to correct

such performance. The Boards will be guided by the following general rules:

A student who fails two major courses may be asked to withdraw from school or repeat the year. A student who fails one major course and whose average for the other courses is *D* will be asked to repeat the year's work or withdraw from school. A student whose average for the year's work is *D*, at the discretion of the Promotion Board, may be asked to withdraw from school, to repeat the year's work, or be promoted on probation. A student whose progress is unsatisfactory at any time throughout the school year may be placed on probation. A probation can be removed only if the student demonstrates satisfactory improvement. A student on probation will not be eligible for promotion. A student repeating a year must take all major courses. He may be excused from other courses at the discretion of the department head. He must demonstrate satisfactory improvement in each major course in order to be considered for promotion or graduation.

Examinations:

Final grades in each course will be based upon such examinations or other tests as are determined by each department. Grading is on the scale of A, B, C, D, and E (denoting failure).

Grades are averaged on the basis that A = 1, B = 2, C = 3, D = 5, and E = 8, and since the time devoted to courses varies, grade averages will take into account the time assigned to courses, giving them computation values as follows:

First year: Anatomy 5; Histology 5; Physiology 5; Biological Chemistry 5.

Second year: Pathology 6; Bacteriology 4; Pharmacology 4; Physical Diagnosis 2; Laboratory Diagnosis 2; Surgery 2.

Third year: Dental Medicine (including Dental Public Health, Nutrition, Periodontics, and Radiology) 5.0; Operative Dentistry (including Dental Anatomy, Endodontics, and Pediatric Dentistry) 5.0; Oral Histopathology 1.5; Oral Surgery 0.5; Orthodontics 2.0; Prosthetic Dentistry 5.0; Student Research and Seminar 1.0.

Fourth year: Dental Medicine (including Dental Materia Medica, Periodontics, and Radiology) 5.0; Operative Dentistry (including Endodontics, Pediatric Dentistry, and Practice Management and Dental Jurisprudence) 5.0; Oral Surgery and Anaesthesia

1.5; Orthodontics 2.0; Prosthetic Dentistry 5.0; Student Research and Seminar 1.5.

A subcommittee on examinations will give a *comprehensive oral examination* at the end of the senior year and assign a mark for performance in this examination.

A Committee on Examinations composed of faculty members in charge of courses given during the third and fourth years will assign candidates for the D.M.D. a final mark. It will recommend to the Faculty of Medicine, of which the School of Dental Medicine is a part, those who pass and are otherwise qualified for the degree and for honors.

Withdrawal from the School:

The Faculty reserves the right to require the withdrawal of any student at any time when in the opinion of his instructors he is manifestly unqualified to continue his studies.

A student may withdraw voluntarily from the School upon application to the Dean. Application for reinstatement by any student must be received in writing at least four months prior to the date of readmission and for favorable action must be approved by the Committee on Admission. After two years, favorable action will usually not be taken.

For additional regulations see the combined catalogue of the Schools of Medicine and Dental Medicine.

DEGREES
DOCTOR OF DENTAL MEDICINE

Every candidate for the degree of *Doctor of Dental Medicine* at Harvard University must be at least twenty-one years of age and of good moral character. He must have fulfilled all the requirements for admission to this school; give evidence of having studied at least two full years in basic health sciences comparable to those offered in the first two years of this school and two years in a recognized dental school, of which one year must be spent in the regular fourth year course of the Harvard School of Dental Medicine. He must have passed all the required examinations and have satisfactorily completed

the minimum requirements for work in the various laboratories and clinics.

The degree of Doctor of Dental Medicine *cum laude*, *magna cum laude*, or *summa cum laude* may be given to students of highest general rating in the class, on recommendation of the Committee on Examinations. The degree is also awarded, where appropriate, with honors for a thesis in a special field.

Application for the D.M.D. degree, on a form provided by the Dean's Office, must be filed at that office prior to April 1 in order for the student's name to be placed on the list of degree candidates at Commencement.

FEES AND EXPENSES

An estimate of total yearly expenses shows that the average cost of the school year is $2,500 for each academic year. This estimate includes tuition, medical health fee, board and room, books, laundry, and incidentals. Total costs over the four years for tuition, fixed fees, instruments, textbooks, and supplies are estimated at $5,200 which compares favorably with the national average for these expenses.

The fees are: — For matriculation, $5; for medical health fees, $61.50 for each year; for instruction (including laboratory charges except microscope rental, breakage, damage and loss of apparatus), $1,000 for each academic year. Term bills are issued approximately every two months.

Students are required to have their own microscopes, haemocytometers, stethoscopes, and ophthalmoscopes. A limited number of microscopes is available for rental each year. Third year students are required to purchase a set of dental instruments at a cost of approximately $900. Other instruments and supplies are furnished by the School.

A deposit of $50 is required of every new student who accepts a place in the School of Dental Medicine; this sum is to be applied on his first term bill or to be forfeited if the student does not register.

All indebtedness to the University must be paid by all candidates for degrees at least one day before Commencement.

Any student whose indebtedness to the University remains unpaid on the date fixed for payment is deprived of the privileges of the

University until he is reinstated by consent of the Dean, after payment of all indebtedness. A fee of $10 is automatically added to all bills which are unpaid by the due date. Students will be held responsible for the payment of fees until they have notified the Dean, in writing, of their intention to withdraw.

BOND REQUIREMENT

On his entrance to the School every student is required to file with the Bursar a bond in the sum of $500 as security for payment of University bills. The bond must be signed by two bondsmen, both of whom must be citizens of the United States, or by a surety company duly qualified to do business in Massachusetts.

No officer or student of the University will be accepted as a bondsman and in no case will more than one parent be accepted as a bondsman. In lieu of the bond a student may deposit with the Bursar five hundred dollars in United States government coupon bonds, or five hundred dollars in cash which will bear no interest.

STUDENT EMPLOYMENT

The Dean's Office makes every effort to assist students in obtaining part-time work during the college year and full-time work during the summer vacation. The service is furnished without cost either to the student or to the employer. It is recommended, however, unless a student sees reasonably clearly how he will meet the expenses of at least the first year in the School, that he postpone his entrance until he can save enough money to get started without having ahead of him oppressive financial worry.

Only a limited amount of outside work can be done without being a tax on the student's health and scholarship.

DORMITORY

Vanderbilt Hall, the student dormitory for men, has accommodations for 325 students. The majority of the rooms are designed for one occupant, but there are also a number of suites for two or more

persons. The price of rooms ranges from $200 to $460 for the academic year. Application forms for rooms in Vanderbilt Hall will be sent to all new students approximately four months before registration day. Students are permitted to re-engage their rooms for the following year by signing lease cards at the Medical School Dean's Office. The dormitory has squash courts and a gymnasium which are open to members of the teaching staff and students of the School of Dental Medicine and Medical School. In addition the Schools have tennis courts and an outside exercise field.

There is a parking lot for automobiles behind the hall which is owned by the Schools. No charge is made for this facility and the Schools assume no responsibility for loss or damage to automobiles or other property left in the lot.

The dormitory dining hall is open for all members of the Schools. First year students living in Vanderbilt Hall will be required to pay full board for 21 meals a week throughout the academic year ($535). Second year students living in Vanderbilt Hall will be required to pay full board for 21 meals a week for the first semester ($267.50). During the second term, second year students may sign up by the week or pay for individual meals as they wish. Except as stated above, a weekly or an individual meal rate is available.

Rooms and apartments for women and married students may be found close to the School.

STUDENT HEALTH SERVICE

The Harvard Medical Center Clinic at the Peter Bent Brigham Hospital, 721 Huntington Avenue, supplies medical care to the students. The Clinic is open daily except Saturday afternoons, Sundays, and holidays from 8:30 A.M. to 5:00 P.M.; office hours for the physicians are 8:30 to 9:45 A.M. and 1:00 to 2:00 P.M. However, one of the staff is available during the day by appointment. For emergency care at night and on holidays, the Emergency Service of the Peter Bent Brigham Hospital is open at all times and one of the staff of the Clinic is available by telephone.

Each student who is accepted for admission must submit, on a form supplied by the Dean's Office, a certified statement of successful vaccination within three years prior to registration. Results of a chest

film made within six months prior to registration must also be submitted. A complete medical examination of each new student is required at the beginning of the school year. This is conducted by appointment shortly after school opens.

Dental students with minor illnesses requiring rest in bed, as well as more serious cases, will be hospitalized either at the Peter Bent Brigham Hospital or at one of the other associated teaching hospitals. Upon registration, each student receives a booklet which describes the medical services available under the Health and Medical Care Program for Students. Hospital insurance is available through the plan for wives and children of married students.

Any illness necessitating absence from classes must be reported to the physician to students. On the day the student returns to classes, the physician to students *must* be notified.

SCHOLARSHIPS

SCHOOL OF DENTAL MEDICINE SCHOLARSHIPS

A limited number of scholarships and fellowships is available in the School of Dental Medicine. Scholarships are awarded on the basis of academic excellence, financial need or a combination of these factors.

Applications for scholarships should be filed before *October 4* for 1957–58 academic year.

The Alford Fund (1785). Mrs. Joanna Alford. To be used for scholarships for those students who are under low and indigent circumstances.

Dwight M. Clapp (1926). Clara Josephine Clapp, in memory of her husband, Dwight M. Clapp, D.M.D. 1882. For the education of a male student born in Massachusetts, preferably one who has a college education or training of a classical character.

Harvard Dental Alumni (1949). Selection of a candidate shall be based upon character, scholarship, and promise within the field of dentistry. The award may be offered as a scholarship to an undergraduate student of the third or fourth year or as a fellowship for graduate work.

TEACHING CLINIC AT HARVARD SCHOOL OF DENTAL MEDICINE

TUTORIAL TEACHING

Thomas Alexander Forsyth (1929). Thomas Alexander Forsyth. Scholarship to two deserving men, awarded continuously until they have completed the course.

Eugene Hanes Smith (1920). Alumni Association. To be awarded to a third or fourth year student who has been a student in regular standing during the first and second years.

Peter E. Strauss (1922). Emily R. M. Strauss, in memory of her husband.

FELLOWSHIPS AND SCHOLARSHIPS AVAILABLE IN OTHER DEPARTMENTS OF THE UNIVERSITY AS WELL AS IN THE SCHOOL OF DENTAL MEDICINE

Unless otherwise stated, applications should be made, before *February 8*, to the Dean of the School of Dental Medicine for financial aid during the ensuing academic year.

Austin Fellowships or Scholarships (1899). Established under the will of Edward Austin.

Jason S. Bailey Scholarships (1952). Under the residuary bequest of Jason S. Bailey. To establish scholarships for students in said University.

Frank B. Baird, Jr., Scholarship (1955). Established by the gift of Frank B. Baird, Jr., Foundation.

Ellen S. Bates (1929). Established under the will of Ellen S. Bates. To be awarded every third year, with the next award to be made in 1958.

Baxendale (1928). Established under the will of Esther M. Baxendale. Preference: (1) descendants of Alan Bedford Hudson; (2) students of the name of Baxendale or Hudson; (3) students from the City of Brockton, Mass., or from the Town of Bourne, Mass.

Bright (1880). Established under the will of Jonathan Brown Bright. For descendants of Henry Bright, Jr., of Watertown, Mass., who bear the name of Bright, registered in any department of the University.

Daniel A. Buckley (1905). Established under the will of Daniel

A. Buckley of Cambridge, Mass. For graduates of Latin, High and other public non-sectarian schools in Cambridge whose parents or guardians cannot afford to pay their college expenses.

Godfrey L. Cabot, Inc. Scholarship Fund (1955). The income only to be used for scholarship purposes (including grants of "aid") for students in any school or department of the University. A son of an employee of Godfrey L. Cabot, Inc. or of its subsidiary and associated companies, who is a student at Harvard and who applies for aid or a scholarship, may be preferred in the awards from this fund.

Victor Emanuel Chapman Memorial (1917). Several donors. In memory of Victor Emanuel Chapman, A.B. 1913, killed in World War I. For a French youth (or youths) for study in some department of Harvard University. Applications should be made through the Institute of International Education, Inc., 1 East 67th Street at Fifth Avenue, New York 21, N.Y., before *February 1*. A student already enrolled at Harvard should, however, apply through the Dean's Office.

Joseph Hodges Choate Memorial (1919). Harvard Club of New York City. In memory of Ambassador Joseph Hodges Choate, A.B. 1852. Awarded upon the nomination of the Vice-Chancellor of the University of Cambridge, England, to a British subject coming from that University to study in any department of Harvard University.

George Chase Christian Memorial Scholarship (1936). Mrs. George Chase Christian. In memory of her husband, George Chase Christian of the Class of 1895. To be awarded as National Scholarships to residents of Minnesota, for study in any of the graduate and professional schools of Harvard University.

Mark D. Cory Scholarship (1954). Established under the will of Mark D. Cory. To be awarded to a worthy student of the Gadsden High School, Gadsden, Alabama. Student to be selected and designated by the faculty of said high school. Administered by the Committee on Scholarships in Harvard College, 20 University Hall.

Charles Downer Scholarship Fund (1927). Established under the will of Charles Downer, A.B. 1889, LL.B. 1892, and available for stu-

dents registered in any department of the University. Assignment is to be made, preferably, as follows:

A. (1) To descendants of Joseph and Robert Downer, of Wiltshire, England, who came to America at about the year 1650, provided such descendants bear the surname of Downer.

(2) To those of English or Anglo-Saxon stock, bearing the surname of Downer by right of birth or inheritance.

The award to each student whose case comes within the above provision will include enough money to pay, in any academic year, his expenses for tuition, books, food, room, and other incidentals.

B. If the income from the fund is not in this manner wholly used, awards shall be made to those students who are *descendants of members of the Class of 1889* who are in need of assistance. The amount of such scholarships shall be determined by the Authorities as the necessities of the students may require.

C. Whenever there is a balance of income not used as specified above, then awards shall be made to *those students who are residents of the State of Vermont.* The amount of such scholarships shall, in all cases, be fixed by the Authorities.

D. If there shall be at any time a balance of income not used as specified above, then awards shall be made to students who are worthy of assistance and of high scholarship, preference to be given to

(1) Descendants of graduates of Harvard College, and

(2) To those "of that old Anglo-Saxon stock which has gone forth from New England into all parts of the United States and has been the means of giving strength and stability and character to our government."

Or, any balance of income remaining after the ward of scholarships as specified in paragraphs A, B, and C above may be used for Fellowships for Harvard graduates of high scholarship and of rare and unusual ability who are pursuing special work either at Harvard or at any American or foreign university or school.

Joseph Eveleth (1896). Established under the will of Joseph Eveleth. For students in any department of the University.

Gage Scholarship (1948). Established under the will of Dr. Homer Gage. "For one or more scholarships in such departments of the University as the said President and Fellows may determine."

Jean Gaillard Memorial Fellowship (1946). Established in memory of Jean Gaillard, a student of the Ecole Centrale des Arts et Manufactures in Paris, who served as an Aspirant in the French Air Forces, was arrested by the German Gestapo, and died in the German concentration camp at Ravensbrueck April 16, 1945, a victim of Nazi inhumanity. For a French youth for study in any department of Harvard University or of the Massachusetts Institute of Technology. The incumbent from year to year is to be nominated by the Board of Directors of the Ecole Centrale des Arts et Manufactures in Paris.

John Tyler Hassam (1941). Established under the will of Eleanor Hassam in memory of her father, John Tyler Hassam, A.B. 1863.

Lewis and Harriet Hayden (1894). Established under the will of Mrs. Harriet Hayden. Open to colored students in the Medical School, the School of Public Health, and the Dental School. May be divided.

Charles W. Holtzer (1929). Established under the will of Charles W. Holtzer. For students of German birth who have received their preliminary education in German institutions of learning. Students in Germany may apply through the German Academic Exchange Service in Bonn.

Edward William Hooper Memorial (1905). The gift of friends of Edward W. Hooper, 1859. For one of more fellowships in any Department of the University.

Frank Knox Memorial Fellowships (1948). Established by Mrs. Frank Knox in memory of her husband, Colonel Frank Knox, LL.D. (hon.) Harvard, 1942, Secretary of the United States Navy, 1940-44. To be awarded annually:

1. To a student or students chosen from any one of the following nations included in the British Commonwealth; the United Kingdom, the Union of South Africa, Canada, Newfoundland, Australia, and New Zealand, who shall devote a major part of the period of his study in any one of the Faculties of Harvard University. Nominations are ordinarily made to the Committee by

the Advisory Selection Committee of The Association of Universities of The British Commonwealth in London, England. Inquiries from British students should be addressed to the Secretary of the Association of Universities of The British Commonwealth, 36 Gordon Square, London.

2. To a recent graduate of Harvard College or to a student having completed at least one year of study in one of Harvard University's graduate Faculties for study in any one of the nations in the British Commonwealth as stated above.

Candidates shall be selected on the basis of future promise of leadership, strength of character, keen mind, a balanced judgment, and a devotion to the democratic ideal.

Arthur Lehman Fund (1936). Established in memory of Arthur Lehman of the Class of 1894. For fellowships in the graduate and professional schools only of Harvard University.

Horace Louis Leiter Memorial Scholarship (1955). Established under the will of Mrs. Marietta D. Leiter in memory of her husband, Dr. Horace Louis Leiter, 1900. For scholarships for deserving students.

Lincoln (1876). Established under the will of Miss Levina Hoar. Preference: students from Lincoln, Mass., registered in any department of the University.

Frances E. Markoe Residuary Bequest (1944). Established under the will of Frances E. Markoe. The income of her residuary bequest to Harvard University to be used "for the establishment of scholarships."

John Parker (1873). Established under the will of John Parker. For students and graduates of all Departments of the University devoting themselves to the study of one of the natural sciences. The income is assigned on recommendation to the Committee from the various Departments and Schools. Nominations due *February 1.*

Frederick E. Parlin (1928). Established under the will of Albert Norton Parlin. Preference: natives of Malden or Everett, Mass.

William Pennoyer Bequest (1670). Established under the will of William Pennoyer of England, for two fellows and two scholars; one preferably to be a descendant of Robert Pennoyer (a brother of

William) and the other . . . [from] . . . New Haven [Colony]. Preference to be given to undergraduate descendants. Pennoyer descendants in the graduate schools may apply for the Pennoyer Scholarship by filing such application directly with the Committee on Scholarships and Financial Aids to Students in Harvard College, 20 University Hall.

Aristides Evangelus Phoutrides (1925). Friends of Aristides Evangelus Phoutrides, A.B. 1911, Ph.D. 1915. Available for student of Greek birth or of Greek parentage in any department of the University.

Princeton (1910). An alumnus of Princeton University. Preference: a graduate of Princeton University who desires to enter one of the graduate departments of Harvard University. Application should be made to the Dean of the Graduate School of Princeton University before *February 10.*

Leon W. Redpath (1938). Established under the will of Mrs. Ellis W. Redpath in memory of her son, Leon W. Redpath, A.B. 1898. For deserving students from the state of Ohio, with preference to students from Stark and Tuscarawas Counties.

Franklin Reynolds (1925). Established under the will of John F. Reynolds. For students in any department of Harvard University and Radcliffe College who are natives of Marblehead, Mass. Graduate students should submit applications directly to the Committee on Scholarships in Harvard College, 20 University Hall.

James A. Rumrill (1909). Mrs. James A. Rumrill, in memory of James Augustus Rumrill, A.B. 1859. For a properly qualified graduate of a college or university in Virginia, North Carolina, South Carolina, Florida, Georgia, Tennessee, or Kentucky, who desires to study in one of the graduate departments of Harvard University. The selection of the incumbent is to be made on the advice of the President and Faculty of the institution from which the student comes.

Peter Brooks Saltonstall '43 Memorial Fellowship (1947). Established by Senator Leverett Saltonstall in memory of his son, Peter B. Saltonstall. To assist a worthy student from the Hawaiian Islands and those islands west of Hawaii, including New Zealand, the Fiji Islands and Australia, in obtaining an education in any department

of the University. The purpose of this memorial is to further the education, the health and welfare of the peoples inhabiting the above named regions of the far Pacific. The stipend shall be set to supplement the holder's income sufficiently to defray all his basic expenses of tuition, board and room, and in certain instances some travel allowance may be included. Applications due *February 1.*

Ernest Frederick Slater Scholarship (1955). Under the will of Ernest F. Slater. The income to be awarded as scholarships to qualified residents of the city of Orangeburg, South Carolina, in any of the schools or departments of Harvard University; preference to be given to young men who are descendants by birth or adoption of Edward Frederick Slater. No scholarship will be awarded to students in their first year at the University whether as undergraduates or graduates.

Charles H. Smith Bequest (1947). Established under the will of Charles H. Smith. For "the payment of scholarships . . . to students for the time being in said University who shall be graduates from any of the High Schools of the City of Providence; and if there shall, at any time, be no such students in said University, then to such other students in said University. . . ."

Stoughton (1701). Established under the will of Lieutenant Governor William Stoughton, A.B. 1650. Preference: (1) students from Dorchester, Mass.; (2) students from Milton, Mass.

Augustus Clifford Tower (1927). Established under the will of Augustus Clifford Tower. To be awarded annually to a French student for study in any graduate department of Harvard University. Applications should be made through the Institute of International Education, Inc., 1 East 67th Street at Fifth Avenue, New York 21, N.Y., before *February 1.*

University General Scholarship Fund (1951). Established by the President and Fellows of Harvard College. For scholarships to students in any school or department of Harvard University.

Anna Vaughn Foundation (1935). Established under the will of John Vaughn, A.B. 1879. For students who are pursuing studies in any biological science.

Sarah L. Viehmann (1936). Established by Henry Bluestone, A.B. 1906, in memory of his mother, Sarah L. Viehmann.

Jens Aubrey Westengard Fund (1954). Established under the will of Rebecca Aubrey Westengard. "The income is to be applied . . . to the further education of students of promise and standing in any department of the University by providing them with facilities for further education in Europe, Britain or South America, by travel or study, or to the further education of students of promise and standing in any of those countries, by providing them with facilities for further education by travel and study in this country, preferably by study in some department of Harvard University."

1902 World War Memorial (1923). Established by the Class of 1902, in memory of their classmates, André Cheronnet Champollion and Edward Ball Cole, who were killed in World War I, and Elbert Walker Shirk, who died in 1919. Preference: descendants of the members of the Class of 1902.

The scholarships of the present are the result of the generosity and faith of members of a former generation. Current recipients of scholarships have an opportunity to render a service to future generations by refunding at some time after graduation a part or all of the scholarship money they have received.

POSTDOCTORAL FELLOWSHIPS

The Harvard School of Dental Medicine, in collaboration with its affiliated clinics at the Massachusetts General Hospital, Children's Medical Center and Forsyth Dental Infirmary for Children, offers a three-year program of advanced postgraduate study intended to prepare individuals for careers in academic dentistry. An applicant must be a graduate of high scholastic standing from an accredited dental school and, on the basis of his interests, accomplishments, and recommendations, appear to offer exceptional promise as a future scholar in dentistry.

The program is arranged to provide a breadth and depth of experience in the essential triad of dental education: teaching, research, and care of patients. Other postgraduate training, for example, an internship or residency at one of the associated clinics named above, or equivalent training elsewhere, will be taken into account in planning the individual program. To the extent required for the individual

Fellow, opportunities for supplementary basic science courses in other departments of Harvard University will be made available.

Stipends will be determined on an individual basis in accordance with experience, dependents, and special needs. The program of study will be made sufficiently flexible to permit an accepted candidate to take leave for military service without unduly disrupting his course of study.

Applications may be sent at any time to the Fellowship Committee of the Harvard School of Dental Medicine. Appointments will usually commence July 1.

PRIZES

Harvard Dental Alumni Medals (1953). The Harvard Dental Alumni Association awards annually for all-around scholastic excellence its gold medal to the senior who ranks first in his class and its silver medal to the senior who ranks second.

Harvard Odontological Society (1949). The Harvard Odontological Society each year presents a Certificate of Merit to the best Senior Seminar Essayist of that year. This senior is selected by the Awards Committee of the School of Dental Medicine.

Dr. Grace Milliken (1950). The income of one thousand dollars to be awarded annually if practicable, but at least once in three years, for an outstanding essay on the general subject of dental health.

HONORARY FRATERNITY

Omicron Kappa Upsilon (1914). A national dental honorary fraternity organized to encourage a high grade of scholarship. Approximately three members of the senior class are elected each year on recommendation of the Dean.

LOAN FUNDS

Funds have been established to which students who are in need of money may make applications for loans.

Application for loans should be made at the Dean's office within two weeks of registration. In case of unforeseen emergency loans may be made at any time. Loans are made to meet term-bills and

cash is provided rarely. Unless otherwise indicated, interest at the rate of 1% per year will be charged on loans, payable on the first of July and continuing at this rate until the July 1st three years after the borrower's graduation from the School. Thereafter, interest at the rate of 4½% per year will be charged annually on July 1st on outstanding loans. Where the student borrower, for any reason, leaves the School prior to graduation, interest at the rate of 1% will be charged from the date of loan until the date of separation from the School and interest at the rate of 4½% will be charged thereafter.

Notes are payable at any time but become due on July 1st five years after graduation.

Limited loans will be made to students in the second, third, and fourth year classes whose records have been sufficiently creditable to make it probable that they will remain in the School and whose other financial obligations do not make it improbable that this loan will be repaid. First year students may apply for loans only in their second half-year and then only in case of unanticipated financial difficulty.

The Christian Soldier Fund (1925). Established by Miss Caroline F. Anderson for promising dental students. The loan carries no interest but the recipient must sign a note obligating him to repay the loan not later than five years from the date of the note.

Dental Alumni Loan Fund (1927). Established and maintained by the Dental Alumni Association for financial aid to worthy students.

Lucinda Davis Fernald Fund (1936). A small fund, the gift of Adelbert Fernald, D.M.D. 1896, to be loaned to deserving New England-born students of good character.

Robert T. Moffatt Fund (1925). A small fund from various contributors in memory of Dr. Robert T. Moffatt, D.M.D. 1895, for the benefit of needy and deserving students.

School of Dental Medicine Revolving Loan Fund (1952). Recognizing the need for student loan money in the School, the President and Fellows of Harvard College authorized an appropriation to establish this fund.

School of Dental Medicine Loan Fund (1953). An appropriation from the School's funds to establish additional loan money for needy students.

ANNOUNCEMENT OF COURSES

DIVISION OF STUDIES FOR THE FIRST AND SECOND YEARS

TOTAL NUMBER OF HOURS FOR EACH SUBJECT

FIRST YEAR	HOURS	SECOND YEAR	HOURS
Anatomy	280	Bacteriology	200
Histology	280	Pathology (including Parasitology and Neuropathology)	357
Physiology	256	Pharmacology	160
Biochemistry	256	Laboratory Diagnosis	100
Medical Psychology	16	Physical Diagnosis	145
Orientation in Dentistry	15	Surgery	100
		Obstetrics	5
		Dental Medicine	7
		Neurology and Psychiatry	16
Total	1103	Total	1090

Descriptions of courses for the first and second years are abridged. See combined catalogue of the Harvard Medical School and School of Dental Medicine for further particulars.

Orientation in Dentistry

ROY O. GREEP, PH.D., A.M. (hon.), *Dean of the School of Dental Medicine.*
DOUGLAS A. ATWOOD, M.D., D.M.D., *Research Fellow in Prosthetic Dentistry.*
LENNARD T. SWANSON, D.M.D., *Clinical Associate in Orthodontics.*
CHARLES L. BOYERS, JR., D.M.D., *Instructor in Pediatric Dentistry.*
GEORGE CHRISTMAN, D.M.D., *Instructor in Oral Surgery.*
JULIAN ROTHBLATT, D.M.D., *Instructor in Orthodontics.*
NORMAN TRIEGER, D.M.D., *Instructor in Dental Medicine.*
HUGH BURDETTE, D.M.D., *Assistant in Prosthetic Dentistry.*
J. HOWARD OAKS, D.M.D., *Assistant in Operative Dentistry.*
HERBERT WELLS, D.M.D., *Milton Research Fellow in Orthodontics.*

ORIENTATION IN DENTISTRY. *First Year.* — This course is designed to introduce the student early in his dental education to the various phases of clinical dentistry and to correlate the preclinical sciences

with clinical practice. Case presentations, clinic and hospital visitations, and informal seminars are arranged on Saturday mornings in the early part of the first year.

Anatomy

George B. Wislocki, M.D., S.D. (hon.), *Hersey Professor of Anatomy, James Stillman Professor of Comparative Anatomy* and *Head of the Department* (died October 22, 1956).

Roy O. Greep, PH.D., A.M. (hon.), *Professor of Anatomy in the School of Dental Medicine* and *Acting Head of the Department.*

Required Courses

Anatomy A and B. *First Year.* — The courses of the first year are intended to teach human anatomy, both gross and microscopic, together with the essentials of human embryology and neurology. Half of the time is devoted to work in the dissecting rooms, the other half to work in the histological and embryological laboratories.

Lectures. Dr. Greep and Associates. *Six lectures a week, first half-year.* 96 hours.

Demonstrations. *To sections of the class, at the pleasure of the instructors.*

Laboratory work. *Twenty-nine hours a week, first half-year.* 464 hours.

Physiology

Eugene M. Landis, M.D., PH.D., *George Higginson Professor of Physiology* and *Head of the Department.*

Affiliated:

Richard C. Wolf, PH.D., *Research Fellow in Dental Medicine.*

Required Course

Physiology A. *First Year.* — The lectures of this course are designed to acquaint the student with the more fundamental aspects of physiology and to consider in detail those portions of the subject that are essential to an understanding of the phenomena of health and disease in man.

By means of laboratory exercises the student is introduced as rapid-

ly as possible to the observational methods and techniques available for studying function in man. Then equal emphasis is placed upon exercises illustrating in animals the experimental procedures employed for the detailed analysis of function and for the acquisition of a fundamental knowledge of physiology.

Conferences and demonstrations supplement the more formal instruction.

Lectures and Laboratory work. Dr. Landis and Associates. *Three days a week, second half-year.* 256 hours.

Biological Chemistry

A. Baird Hastings, ph.d., s.d. (hon.), *Hamilton Kuhn Professor of Biological Chemistry* and *Head of the Department.*

Affiliated:

James H. Shaw, ph.d., a.m. (hon.), *Associate Professor of Biological Chemistry in the School of Dental Medicine.*

Required Course

Biological Chemistry A. *First Year.* — The lectures in this course consist of a brief discussion of the theories of chemical constitution and a survey of those classes of chemical substances which are to be found in animals and plants, and of the general principles and more important facts of physiological chemistry.

The laboratory practice is designed to acquaint the student with some of the more important constituents of living matter and their chemical behavior, and with some of the routine methods of biochemical investigation.

Conferences and discussions of selected topics supplement the main work of the course.

Lectures and Laboratory work. Dr. Hastings and Associates. *Three times a week, second half-year.* 256 hours.

Bacteriology

Monroe D. Eaton, m.d., *Associate Professor of Bacteriology and Immunology* and *Acting Head of the Department.*

Affiliated:

JOHN B. MACDONALD, D.D.S., PH.D., *Professor of Oral Microbiology in the School of Dental Medicine.*

REQUIRED COURSE

BACTERIOLOGY A. *Second Year.* — The required course for all students is taught by lectures, laboratory work, and conferences. Stress in this course is laid upon those parts of bacteriology and immunology which are directly pertinent to the pathology of infectious disease, its practical diagnosis and treatment. The students are introduced as rapidly as possible to the medical problems of bacteriology, and the subjects taught are illustrated by material obtained from the associated hospitals. Immunological and serological technic in its practical aspects is dealt with by group instruction, and the preventive aspects of the physician's duties in relation to infectious diseases are considered as thoroughly as time permits.

Lectures. Dr. EATON and Associates. *Monday, Wednesday, and Friday afternoons. Conferences and clinics on alternate Tuesday, Thursday, and Saturday mornings, first half-year,* 104 hours.

Laboratory work. Dr. EATON and Associates. *Two hours, Monday, Wednesday, and Friday afternoons, first half-year.* 96 hours.

Pathology

ARTHUR T. HERTIG, M.D., *Shattuck Professor of Pathological Anatomy* and *Head of the Department.*

Affiliated:

REIDAR F. SOGNNAES, PH.D., D.M.D., *Charles A. Brackett Professor of Oral Pathology.*

PAUL GOLDHABER, D.D.S., *Associate in Oral Pathology.*

REQUIRED COURSE

PATHOLOGY A. *Second Year.* — The second year course in pathology is planned as a systematic survey of pathology. It consists of lectures, laboratory study of pathologic histology, and demonstrations of gross pathologic material, partly from fixed specimens drawn from the Warren Museum, but more extensively from demonstrations of fresh autopsy and surgical material brought from the laboratories

of the affiliated hospitals. Students visit in rotation the pathology laboratories of seven of the teaching hospitals affiliated with the Medical School for participation in the performance of autopsies.

Lectures. Dr. HERTIG and Associates. *Mondays, Wednesdays, and Fridays, for twenty-six weeks.* 78 hours.

Laboratory work. Dr. HERTIG and Associates. *Mondays, Wednesdays, and Fridays, for twenty-six weeks.* 195 hours.

Tropical Public Health

The following course is given by members of the Faculty of the Harvard School of Public Health.

THOMAS H. WELLER, M.D., *Richard Pearson Strong Professor of Tropical Public Health* and *Head of the Department.*

REQUIRED COURSE

PARASITOLOGY A. *Second Year.* — The important helminth and protozoan parasites of man are considered with reference to their geographic distribution, identification, mode of transmission, pathogenesis, immune reactions and methods for prevention and control. Clinical aspects and chemotherapy of parasitic diseases are discussed. Emphasis is given to methods of laboratory diagnosis.

Lectures, demonstrations, and laboratory work. Dr. WELLER and Associates. *Tuesdays, Wednesdays, and Saturdays, 10 to 1, December.* 30 hours.

Pharmacology

OTTO KRAYER, M.D., A.M. (hon.), *Charles Wilder Professor of Pharmacology* and *Head of the Department.*

Affiliated:

PAUL L. MUNSON, PH.D., A.M. (hon.), *Associate Professor of Pharmacology in the School of Dental Medicine.*

PASQUALE J. COSTA, PH.D., M.D., *Instructor in Pharmacology in the School of Dental Medicine.*

PHILIP F. HIRSCH, PH.D., *Instructor in Pharmacology in the School of Dental Medicine.*

SAMUEL FRIEDMAN, PH.D., *Research Associate in Pharmacology in the School of Dental Medicine.*

Required Course

Pharmacology A. *Second Year.* — The course in pharmacology consists of lectures, demonstrations, experimental laboratory exercises and conferences. The students have an opportunity to learn about the fundamental pharmacological and toxicological concepts and to become acquainted with the important drugs. Emphasis is placed on the mode of action of pharmacological agents in such a way as to provide the student with a rational basis for the study of therapeutics with drugs. The analysis of pharmacological effects is based on experimental and clinical facts obtained from studies in man and animals. In the laboratory, stress is laid on observation and interpretation by the student.

Lectures. Dr. Krayer and Associates. *One hour, three times a week: Tuesday, Thursday, and Saturday mornings, first half-year; Monday, Wednesday, and Friday afternoons, second half-year.* 84 hours.

Laboratory work and conferences. Dr. Krayer and Associates. *Tuesday, Thursday, and Saturday mornings, first half-year.* 76 hours.

Medicine

Paul C. Zamecnik, m.d., *Collis P. Huntington Professor of Oncologic Medicine, Director of the J. Collins Warren Laboratories of the Huntington Memorial Hospital* and *Chairman of the Executive Committee of the Departments of Medicine.*

Walter Bauer, m.d., *Jackson Professor of Clinical Medicine* and *Head of the Department at the Massachusetts General Hospital.*

Herrman L. Blumgart, m.d., *Professor of Medicine* and *Head of the Department at the Beth Israel Hospital.*

William B. Castle, m.d., s.m. (hon.), m.d. (hon.), s.d. (hon.), *Professor of Medicine* and *Head of the Department at Boston City Hospital.*

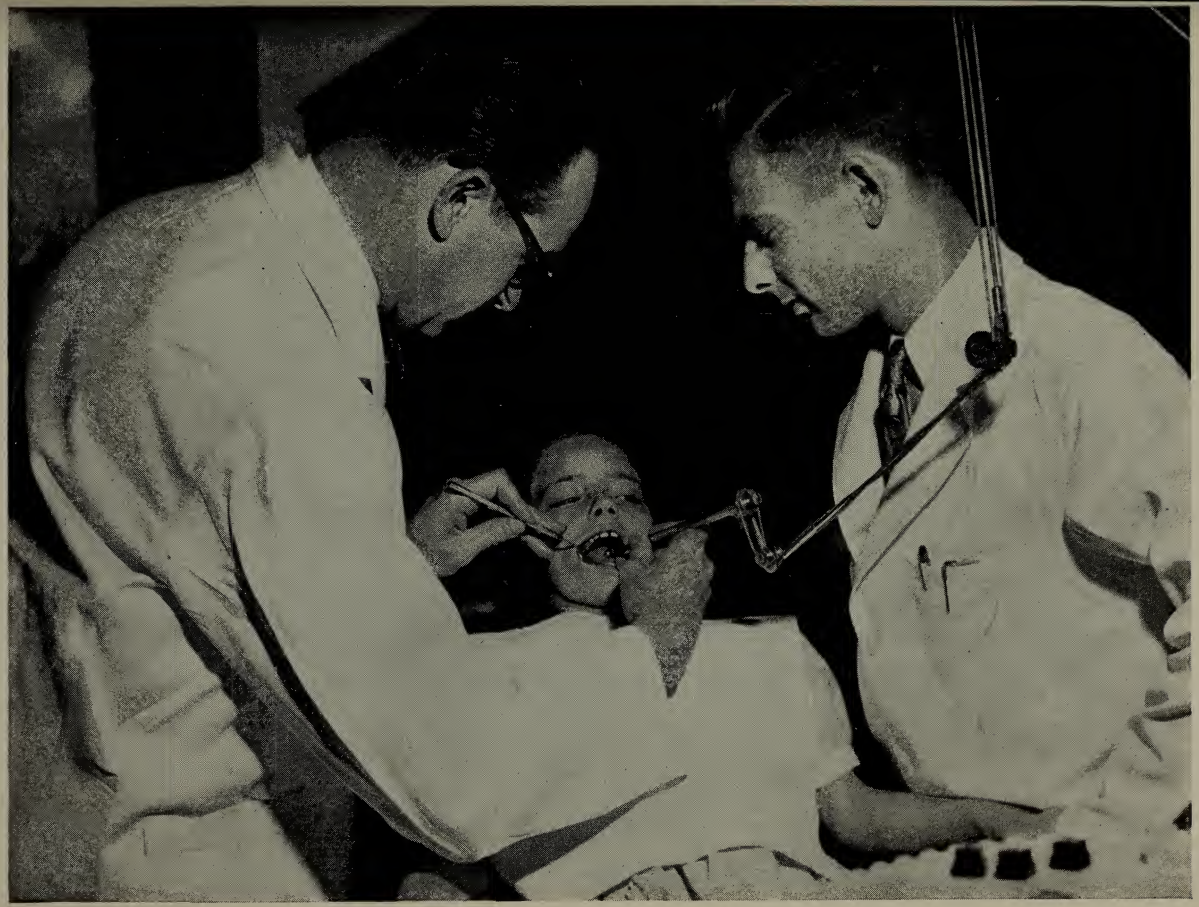
George W. Thorn, m.d., ll.d., sc.d. (hon.), *Hersey Professor of the Theory and Practice of Physic* and *Head of the Department at the Peter Bent Brigham Hospital.*

Earle M. Chapman, m.d., *Assistant Clinical Professor of Medicine.*

Frederick S. Bigelow, m.d., *Associate in Medicine.*

Affiliated:

David Weisberger, d.m.d., m.d., *Professor of Dental Medicine.*



PERSONAL INSTRUCTION

MASSACHUSETTS GENERAL HOSPITAL

Required Course

Medicine A. *Second Year.* — During the second half of the second year introductory aspects of internal medicine are covered in a correlated program of lectures and demonstrations in the courses in physical diagnosis and laboratory diagnosis. The application of the subject matter of preclinical courses to clinical medicine is emphasized. For their practical instruction in the methods of history taking, physical examination, and laboratory technique the students are divided into small groups.

Lectures and demonstrations on physical diagnosis and introductory aspects of clinical medicine. Dr. Chapman and Associates. *Four times a week, second half-year.* 64 hours.

Section teaching in physical diagnosis and history taking. Dr. Chapman and Associates. Eight teaching hospitals are used. *Each student has twenty-four exercises.* 84 hours.

Lectures and practical exercises in laboratory diagnosis. Dr. Bigelow and Associates. *Three times a week, second half-year.* 96 hours.

Neurology and Psychiatry

Raymond D. Adams, m.d., *Bullard Professor of Neuropathology* and *Head of the Department of Neurology at the Massachusetts General Hospital.*

Derek E. Denny-Brown, dr.phil., m.d., *James Jackson Putnam Professor of Neurology, Head of the Department at the Boston City Hospital* and *Chairman of the Executive Committee of the Departments of Neurology and Psychiatry.*

Erich Lindemann, dr.phil., m.d., *Professor of Psychiatry* and *Head of the Department of Psychiatry at the Massachusetts General Hospital.*

Required Courses

Psychiatry A. *First Year.* — Normal Emotional Development. The course reviews the understanding of the human being, whether sick or well. The lectures deal with the development of human personality in the setting of the family and the culture from infancy through childhood and adolescence, to maturity and aging. Emphasis is laid upon the adjustment of normal personality types to various crisis situations, the influence of anxiety, and the significance of unconscious forces.

Lectures and discussion groups. Dr. Lindemann and Associates. *Once a week throughout the year.* 32 hours.

NEUROLOGY A. *Second Year.* — Clinical lectures are given at the Boston City Hospital and at the Massachusetts General Hospital to the entire class. The object of the course is to give the student a general knowledge of the principles of diagnosis and treatment of diseases of the nervous system.

Clinical lectures. Drs. DENNY-BROWN and ADAMS. 12 hours.

NEUROPATHOLOGY A. *Second Year.* — The course consists of lectures, laboratory work, and demonstrations, amounting to fifty-four hours. The lectures introduce conceptions of value in neurology and psychiatry. Microscopical and gross specimens are studied.

Lectures and laboratory work. Staff. *Three times a week, for six weeks.* 54 hours.

PSYCHIATRY B. *Second Year.* — The course consists of lectures introducing the methods of history-taking and examination applicable to the study of patients with psychiatric disorders.

Lectures. Dr. LINDEMANN and Associates. 12 hours.

Section teaching. *Each student attends four three-hour exercises as part of the course in physical diagnosis.*

Pediatrics

ALLAN M. BUTLER, M.D., *Professor of Pediatrics* and *Head of the Department at the Massachusetts General Hospital.*

CHARLES A. JANEWAY, M.D., *Thomas Morgan Rotch Professor of Pediatrics* and *Head of the Department at the Children's Hospital.*

CLEMENT A. SMITH, M.D., *Associate Professor of Pediatrics at the Boston Lying-in Hospital* and *Chairman of the Executive Committee of the Departments of Pediatrics.*

REQUIRED COURSE

PEDIATRICS A. *Second Year.* — Lectures are given during the second year to familiarize the students with the study of children's diseases before they come into contact with patients. In this series are discussed the physiology of nutrition and the principles of infant feeding, the anatomical and physiological differences between children and adults, a consideration of the normal growth and development of children and the physiology and pathology of extracellular body fluids.

Clinical lectures. *Second half-year.* 9 hours.

DENTAL MEDICINE

Obstetrics

Duncan E. Reid, M.D., *William Lambert Richardson Professor of Obstetrics* and *Head of the Department.*

Required Course

Obstetrics A. *Second Year.* — Lectures on the basic biology of human reproduction. Dr. Reid and Associates. *May.* 5 hours.

Dental Medicine

David Weisberger, D.M.D., M.D., *Professor of Dental Medicine* and *Head of the Department.*

Required Course (Open only to dental students)

Physical Diagnosis. *Second Year.* — This course is devoted to examining the structures of the oral cavity and anatomically related areas. Students will be assigned to patients in the School of Dental Medicine for this course. Dr. Weisberger and Associates. *May.* 7 hours.

Surgery

Edward D. Churchill, M.D., DR. (hon.), S.D. (hon.), *John Homans Professor of Surgery* and *Head of the Department at the Massachusetts General Hospital.*

J. Englebert Dunphy, M.D., *Professor of Surgery* and *Head of the Department at the Boston City Hospital.*

Jacob Fine, M.D., *Professor of Surgery* and *Head of the Department at the Beth Israel Hospital.*

Robert E. Gross, M.D., D.SC. (hon.), *William E. Ladd Professor of Child Surgery* and *Head of the Department at the Children's Hospital.*

Francis D. Moore, M.D., *Moseley Professor of Surgery* and *Head of the Department at the Peter Bent Brigham Hospital.*

Henry K. Beecher, M.D., *Henry Isaiah Dorr Professor of Research in Anaesthesia.*

Required Course

Surgery A. *Second Year.* — The course is designed to correlate preclinical sciences with the basic principles underlying the surgical

management of injury and disease. The Department of Surgery joins with the Department of Medicine in a series of exercises in physical diagnosis and laboratory medicine to offer unified instruction in case taking. Practical exercises are offered that introduce the student to basic surgical techniques.

Lectures and demonstrations on the fundamental aspects of clinical surgery and anaesthesia. Drs. CHURCHILL, MOORE, BEECHER, and Associates. *Second half-year.* 16 hours.

Section work, case taking, lectures and demonstrations on the physical diagnosis of surgical diseases in conjunction with the Department of Medicine. *Each student has twenty-four exercises.* 84 hours.

DIVISION OF STUDIES FOR THE THIRD AND FOURTH YEARS

THIRD YEAR	Lectures, Lab or Demonstration	Clinic
Oral histology and pathology	32	—
Dental anatomy	45	—
Radiology	12	10
Operative dentistry	104	160
Oral hygiene and prophylaxis	18	20
Prosthetic dentistry		
Complete denture prosthesis	90	144
Removable partial prosthesis	42	72
Dental medicine	16	—
Dental medicine, Massachusetts General Hospital	—	4
Oral diagnosis	16	52
Periodontics	26	52
Oral surgery	—	3
Oral surgery, anaesthesia	8	—
Pediatric dentistry	12	20
Orthodontics	68	120
Endodontics	10	20
Introduction to dental research	10	—
Student research and seminar	24	—
Nutrition	8	—
Public health dentistry	24	9
History of dentistry	6	—
	571	686

FOURTH YEAR	Lectures, Lab or Demonstration	Clinic
Radiology	8	20
Operative dentistry	36	118
Prosthetic dentistry		
Complete denture prosthesis	10	103
Removable denture prosthesis	10	90
Fixed partial prosthesis	97	196
Dental medicine	13	—
Clinical clerkship, Massachusetts General Hospital	—	60
Oral diagnosis	13	60
Periodontics	8	72
Dental materia medica	16	—
Oral surgery and anaesthesia	32	40
Pediatric dentistry at the Children's Hospital	—	35
Orthodontics	24	126
Endodontics	10	30
Student research and seminar	24	—
Practice management and dental jurisprudence	6	—
	307	950

The tabulated hours over indicate the approximate allotment of time for the third and fourth academic years in the School of Dental Medicine.

As the entering classes are limited, it is possible to reduce the time usually involved in courses of dental techniques. Individual instruction, demonstrations, seminars and conferences replace the traditional lecture system to a large degree.

Oral Histology and Pathology

Reidar F. Sognnaes, ph.d., d.m.d., *Charles A. Brackett Professor of Oral Pathology* and *Associate Dean.*

John T. Albright, d.d.s., *Research Associate in Oral Pathology.*

Paul Goldhaber, d.d.s., *Associate in Oral Pathology.*

Peter K. Yen, d.d.s., d.m.d., *Assistant in Oral Pathology.*

Bengt O. Engfeldt, m.d., *Lecturer on Pathology in the School of Dental Medicine.* (Resigned September 1, 1956.)

Oral Histology and Pathology — 3rd and 4th years.

The teaching in the third year begins with a microscopic laboratory course and a series of discussions devoted to the histology and pathology of the tissues of the oral cavity and is augmented in the third and fourth years by the clinical teaching staff through many activities in the clinic and in the hospitals.

Dental Anatomy

Myron J. Van Leeuwen, d.d.s., *Assistant Professor of Operative Dentistry* and *Director of Clinic.*

Dental Anatomy. — 1st semester 3rd year.

Instruction in dental anatomy and tooth morphology. Special emphasis is placed on individual tooth form and the relationship of the tooth to adjacent teeth, opposing teeth and supporting tissue. Technique practice in reproduction of tooth form is stressed using natural extracted teeth.

Radiology

Herman DeWilde, m.d., d.m.d., *Clinical Associate in Oral Surgery.*

Radiology — 3rd and 4th years.

Principles of applied roentgenology and the interpretation of radio-

graphs, with consideration of the electro-physical basis of roentgenology, are covered in the third year. Practice in radiological technique is given in both years.

Operative Dentistry

G. Earl Thompson, d.m.d., *Associate Clinical Professor of Operative Dentistry.*
Myron J. Van Leeuwen, d.d.s., *Assistant Professor of Operative Dentistry* and *Director of Clinic.*
John V. Blasi, d.m.d., *Clinical Associate in Operative Dentistry.*
James W. Etherington, d.m.d., *Clinical Associate in Operative Dentistry.*
Gerald L. O'Neill, d.m.d., *Clinical Associate in Operative Dentistry.*
Charles L. Boyers, Jr., d.m.d., *Instructor in Pediatric Dentistry.*
C. Kenneth Lasher, d.m.d., *Instructor in Operative Dentistry.*
Abraham Schwartz, d.m.d., *Instructor in Operative Dentistry.*
Ernest E. Adams, d.m.d., *Assistant in Operative Dentistry.*
Robert J. Matusow, d.m.d., *Assistant in Operative Dentistry.*
J. Howard Oaks, d.m.d., *Assistant in Operative Dentistry.*

Operative Dentistry — 3rd and 4th years.

Early student-patient contact and immediate clinical application of learned technical procedures are emphasized. In the third year instruction is given in oral hygiene, accepted methods of dental prophylaxis and technique of cavity preparation in conjunction with a study of the various types of restorative materials.

In the fourth year gold foil techniques is given, and clinical practice in all phases of operative procedure is continued.

Prosthetic Dentistry

Arthur M. Maloney, d.m.d., *Associate Professor of Prosthetic Dentistry.*
Joseph P. Jazowski, d.m.d., *Assistant Clinical Professor of Prosthetic Dentistry.*
Harold L. Ehrlich, d.m.d., *Clinical Associate in Prosthetic Dentistry.*
David J. Farrell, d.m.d., *Clinical Associate in Prosthetic Dentistry.*
Douglas A. Atwood, m.d., d.m.d., *Research Associate in Prosthetic Dentistry.*
Herbert Berman, d.m.d., *Instructor in Prosthetic Dentistry.*
Roy L. McIntosh, d.m.d., *Instructor in Prosthetic Dentistry.*
Emile C. A. Samaha, d.m.d., *Instructor in Prosthetic Dentistry.*
Hugh Burdette, d.m.d., *Assistant in Prosthetic Dentistry.*
George H. Wyshak, ph.d., d.m.d., *Assistant in Prosthetic Dentistry.*

Prosthetic Dentistry — 3rd and 4th years.

Prosthetic dentistry which includes complete, fixed and removable prosthesis is taught in the third and fourth years. Through lectures, conferences and demonstrations the student receives clinical and laboratory instruction in the anatomy and physiology of the mouth as it applies to prosthetic dentistry, and in the materials and techniques of prosthetic restoration directed toward oral health, function and aesthetics. Every effort is made to provide early clinic contacts and to teach techniques on clinic cases. The high teacher-student ratio, small classes, and special physical facilities favor this type of instruction.

Dental Medicine

David Weisberger, d.m.d., m.d., *Professor of Dental Medicine* and *Chief of the Dental Department at the Massachusetts General Hospital.*
Henry D. Epstein, d.m.d., *Instructor in Dental Medicine.*
Norman Trieger, d.m.d., *Instructor in Dental Medicine.*
Owen W. Kite, d.m.d., *Assistant in Dental Medicine.*
Leslie M. Ohmart, ph.g., ph.c., *Lecturer on Dental Medicine.*

Dental Medicine — 3rd and 4th years.

A course devoted to the diagnosis and treatment of oral diseases, i.e., diseases of the periodontium, dental pulp, oral mucosa and other oral structures together wtih their correlation to systemic conditions. Lectures, seminars, clinical practice and observation both in the Dental Infirmary and at the Massachusetts General Hospital.

Infirmary procedures, identification of oral structures, methods of oral examination, history taking, and common methods of diagnosis for dental and oral disease are given in both years, supplemented by practice in the general clinic.

Periodontics — 3rd and 4th years.

Emphasis is placed on the recognition and correction of systemic factors contributing to diseases of the supporting structures of the teeth.

Various methods in local treatment are taught and applied in the clinic. The care of the entire patient is stressed.

Dental Materia Medica — 2nd semester 4th year.

Specific consideration of dental problems and development of formulary for clinical dentistry, in addition to coverage of practical therapeutic problems in the general clinic.

Oral Surgery

David Weisberger, D.M.D., M.D., *Professor of Dental Medicine* and *Chief of the Dental Department at the Massachusetts General Hospital.*
Herman DeWilde, M.D., D.M.D., *Clinical Associate in Oral Surgery.*
George Christman, D.M.D., *Instructor in Oral Surgery.*
Walter C. Guralnick, D.M.D., *Instructor in Oral Surgery.*
Richard L. Miner, D.D.S., *Instructor in Oral Surgery.*
Robert C. Lincoln, D.M.D., *Assistant in Oral Surgery.*

Oral Surgery — 3rd and 4th years.

The students are taught through lectures and seminars the principles of surgery as applied to exodontia, minor oral surgery, maxillofacial surgery and fractures and anaesthesia.

Individual clinical instruction in exodontia, minor oral surgery and anaesthesia is given at the Dental Infirmary.

In the fourth year students are assigned to the Massachusetts General Hospital as clinical clerks on the Dental Service. At the hospital more extensive surgery of the oral cavity including traumatic injuries to the face and jaws is observed. The student takes active part in the study and treatment of such cases.

Pediatric Dentistry

Paul K. Losch, D.D.S., *Associate Professor of Pediatric Dentistry at the Children's Hospital* and *Chief of the Dental Service at the Children's Medical Center.*
Charles L. Boyers, Jr., D.M.D., *Instructor in Pediatric Dentistry.*
Charles E. Hatch, D.M.D., *Lecturer on Pediatric Dentistry.*

Pediatric Dentistry — 3rd and 4th years.

Those phases of dentistry, oral hygiene, and preventive care applicable to young children are carried on in the general clinic in the Dental Infirmary of the School. Special lectures and demonstrations in pediatric dentistry including instruction in growth and development of the head and face are given in the third year. A course in

dental pediatrics given in the fourth year is designed to cover those phases of systemic and oral disease best seen under hospital conditions and is conducted at The Children's Medical Center. Cases involving oral manifestations of systemic disease receive special consideration. Students attend regular hospital conferences in surgery, clinical pathology, roentgenology and medicine. Medical and dental ward rounds are made.

Orthodontics

Melvin I. Cohen, d.m.d., *Assistant Clinical Professor of Orthodontics.*
Lennard T. Swanson, d.m.d., *Clinical Associate in Orthodontics.*
Julian M. Rothblatt, d.m.d., *Instructor in Orthodontics.*
Herbert Wells, d.m.d., *Milton Research Fellow in Orthodontics.*
Edward I. Silver, d.m.d., *Lecturer on Orthodontics.*
Arthur G. Steinberg, ph.d., *Lecturer on Orthodontics.*

Orthodontics — 3rd and 4th years.

Clinical instruction consists in the observation of developing dentures, the use of preventive measures, and the use of selected orthodontic treatment procedures by each student. Emphasis is placed on the development of sound clinical judgment as a basis for the selection and care of orthodontic patients within the scope of general practice. Opportunity is provided for experience beyond the required minimum for those students with special interest and ability. Discussions and demonstrations supplement the work of the clinic. Each student is required to present a paper in seminar during his junior year and in the last semester of the senior year each student is responsible for the presentation of one or more cases he has treated during his clinical years. In addition to lectures on growth and development, mechanotherapy, and tissue response to tooth movement, lectures and demonstrations are given in cephalometrics, cleft palate, and surgical orthodontics. Observation of a great variety of orthodontic treatments is provided at the Children's Medical Center.

Endodontics

Gerald L. O'Neill, d.m.d., *Clinical Associate in Operative Dentistry.*
Robert J. Matusow, d.m.d., *Assistant in Operative Dentistry.*

Endodontics — 3rd and 4th years.

In the third year the clinical and pathological presentation of pulpal-

periapical disease is integrated with the teaching of oral pathology. In this manner the student achieves an early appreciation of the pathological course of events and the clinical symptoms which necessitate endodontic therapy.

In the fourth year diagnostic conferences and clinical experience involving conservative pulp canal therapy round out the student's introduction to the field.

Dental Research

Roy O. Greep, ph.d., a.m. (hon.), *Professor of Anatomy in the School of Dental Medicine.*

Reidar F. Sognnaes, ph.d., d.m.d., *Charles A. Brackett Professor of Oral Pathology.*

John B. Macdonald, d.d.s., ph.d., *Professor of Oral Microbiology in the School of Dental Medicine* and *Director of the Forsyth Dental Infirmary for Children.*

David Weisberger, d.m.d., m.d., *Professor of Dental Medicine* and *Chief of the Dental Department at the Massachusetts General Hospital.*

Paul L. Munson, ph.d., a.m., (hon.), *Associate Professor of Pharmacology in the School of Dental Medicine.*

James H. Shaw, ph.d., *Associate Professor of Biological Chemistry in the School of Dental Medicine.*

Pasquale J. Costa, ph.d., m.d., *Instructor in Pharmacology in the School of Dental Medicine.*

Philip F. Hirsch, ph.d., *Instructor in Pharmacology in the School of Dental Medicine.*

Virginia M. Fiske, ph.d., *Research Associate in Dental Medicine.*

Samuel Friedman, ph.d., *Research Associate in Pharmacology in the School of Dental Medicine.*

Richard C. Wolf, ph.d., *Research Fellow in Dental Medicine.*

Introduction to Dental Research — 1st semester 3rd year.

A series of ten or more one-hour lectures on specific research projects available for student participation in the research laboratories of the School of Dental Medicine.

Research Project — 3rd and 4th years.

In order to gain a more realistic appreciation of the nature of scientific research, all students of the Harvard School of Dental Medicine, as a requirement for graduation, participate in a laboratory or clinical investigation of their own choosing. By the end of the first semes-

ter of the third year, after completion of the course, Introduction to Dental Research, the student has chosen a research supervisor from the faculty and the subject to be investigated. He presents a plan for his research project in the form of a seminar at the beginning of the second semester. During the rest of the third year, and in some cases during the summer months, he attempts to master the techniques necessary for his work. During the fourth year, with the advice and aid of the faculty research supervisor, the project is carried forward, and at the end of the year, the student presents a seminar summarizing his results. Both the third and fourth-year seminars are also required in written form for permanent reference in the Library.

Nutrition

James H. Shaw, ph.d., a.m. (hon.), *Associate Professor of Biological Chemistry in the School of Dental Medicine.*
Aina M. Auskaps, d.d.s., d.m.d., *Instructor in Dental Medicine.*
Norman P. Willett, ph.d., *Assistant in Dental Medicine.*

Nutrition — 1st and 2nd semesters, 3rd year.

Discussion of relations of nutrition to the development, maturation and maintenance of the oral tissues. Discussion of nutritional requirements, relative values of various foods and the preparation of diet histories. Clinic practice in the evaluation of diet histories and in the development of suitable recommendations for the patient.

Public Health Dentistry

James M. Dunning, d.d.s., m.p.h., *Lecturer on Public Health Dentistry.*
William D. Wellock, d.m.d., m.p.h., *Lecturer on Public Health Dentistry.*

Affiliated:

John E. Gordon, m.d., *Professor of Preventive Medicine and Epidemiology*, s.p.h.
David D. Rutstein, m.d., *Professor of Preventive Medicine.*
Franz Goldmann, m.d., *Associate Professor of Medical Care*, s.p.h.
W. Fred Mayes, m.d., m.p.h., *Associate Professor of Public Health Practice*, s.p.h.

Public Health Dentistry — 3rd year.

Public Health principles and practices with emphasis on the partici-

pation of the dentist. Elements of biostatistics and epidemiology. Lectures, seminars and field trips.

Practice Management and Dental Jurisprudence

James M. Dunning, d.d.s., m.p.h., *Lecturer on Public Health Dentistry.*

Affiliated:

Richard Ford, m.d., *Assistant Professor of Legal Medicine.*

Practice Management and Dental Jurisprudence — 2nd semester 4th year.

Lectures and seminars on practice management, ethics and jurisprudence.

History of Dentistry

Roy O. Greep, ph.d., a.m. (hon.), *Professor of Anatomy in the School of Dental Medicine.*

Reidar F. Sognnaes, ph.d., d.m.d., *Charles A. Brackett Professor of Oral Pathology.*

J. Howard Oaks, d.m.d., *Assistant in Operative Dentistry.*

History of Dentistry — 3rd year.

A course designed to provide a brief background in the ancient and recent developments in dentistry. Several lectures will be devoted to the Harvard Dental School, the School of Dental Medicine, and its affiliated organizations.

COURSES OFFERED TO MEDICAL STUDENTS BY THE SCHOOL OF DENTAL MEDICINE

Opportunities for voluntary and elective work are available at the School of Dental Medicine for third and fourth year medical students. Course material will be designed to meet individual needs where possible. Instruction will be on a tutorial basis. Make all inquiries at the Dean's Office, School of Dental Medicine.

Voluntary Course

30. *Diagnosis of Oral Diseases.* Dr. Weisberger and Associates. *November and December*, Thursdays, 3:30–5:00 p.m. Open to third and fourth year students.

Course in lectures, seminars, clinic practice. (Will not be given for fewer than 10 students.)

Fourth Year Elective Courses

1. *Dental Medicine.* Dr. Weisberger. (Half- or full course.) Experience will be offered in the recognition of local diseases of the oral cavity as well as those abnormalities of the oral cavity which are associated with systemic disease. Limited to 10 students.
20. *Research.* Staff to be selected for the particular need. An opportunity for special study for a period of one or more months.

COURSES FOR HIGHER DEGREES IN MEDICAL SCIENCES

In cooperation with the Division of Medical Sciences of the Faculty of Arts and Sciences, curricula will be designed as need arises for students seeking advanced degrees in the Medical Sciences. Inquiries should be addressed to the Chairman, Divison of Medical Sciences, 25 Shattuck Street, Boston.

COURSE FOR DENTAL GRADUATES

The following course is given in cooperation with the Committee on Courses for Graduates of the Faculty of Medicine.

Dental Medicine 1.

Dr. Roy O. Greep and Associates.
Harvard School of Dental Medicine.
Four or eight months, October through January and/or February through May; daily, all day, except Saturday afternoons.
Attendance limited.
Tuition, $1000 for eight months.

This course is designed for dental teachers, foreign students of special ability, and others who wish to combine clinical study with elective research in the laboratories of the School. Only a very small number of students will be admitted. Curriculum will be designed to meet individual needs and the entire facilities of the School may be utilized.

STAFF

Members of the Faculty of Medicine are indicated in heavy face type.

Adams, E. A. 45
Adams, R. D. 39
Albright, J. T. 44
Auskaps, A. M. 50
Atwood, D. A. 33, 45
Bauer, W. 38
Beecher, H. K. 41
Berman, H. 45
Bigelow, F. S. 38
Blasi, J. V. 45
Blumgart, H. L. 38
Boyers, C. L. 33, 45, 47
Burdette, H. 33, 45
Butler, A. M. 40
Castle, W. B. 38
Christman, G. 33, 47
Chapman, E. M. 38
Churchill, E. D. 41
Cohen, M. I. 48
Costa, P. J. 37, 49
Denny-Brown, D. E. 39
DeWilde, H. 44, 47
Dunning, J. M. 50, 51
Dunphy, J. E. 41
Eaton, M. D. 35
Ehrlich, H. L. 45
Engfeldt, B. O. 44
Epstein, H. D. 46
Etherington, J. W. 45
Farrell, D. J. 45
Fine, J. 41
Fiske, V. M. 49
Ford, R. 51
Friedman, S. 37, 49
Goldhaber, P. W. 36, 44
*Goldmann, F. 50
*Gordon, J. E. 50
Greep, R. O. 33, 34, 49, 51
Gross, R. E. 41
Guralnick, W. C. 47
Hatch, C. E. 47
Hastings, A. B. 35
Hertig, A. T. 36
Hirsch, P. F. 37, 49
Janeway, C. A. 40
Jazowski, J. P. 45
Kite, O. W. 46
Krayer, O. 37
Landis, E. M. 34
Lasher, C. K. 45
Lincoln, R. C. 47
Lindemann, E. 39
Losch, P. K. 47
Macdonald, J. B. 36, 49
Maloney, A. M. 45
Matusow, R. J. 45, 48
*Mayes, W. F. 50
McIntosh, R. L. 45
Miner, R. L. 47
Moore, F. D. 41
Munson, P. L. 37, 49
Oaks, J. H. 33, 45, 51
Ohmart, L. M. 46
O'Neill, G. 45, 48

* Faculty of the School of Public Health.

Reid, D. E. 41
Rothblatt, J. M. 33, 48
Rutstein, D. D. 50
Samaha, E. C. A. 45
Schwartz, A. 45
Shaw, J. H. 35, 49, 50
Silver, E. I. 48
Smith, C. A. 40
Sognnaes, R. F. 36, 44, 49, 51
Steinberg, A. G. 48
Swanson, L. T. 33, 48
Thompson, G. E. 45
Thorn, G. W. 38
Trieger, N. 33, 46
VanLeeuwen, M. J. 44, 45
Weisberger, D. .. 38, 41, 46, 47, 49
*Weller, T. H. 37
Wellock, W. D. 50
Wells, H. 33, 48
Willett, N. P. 50
Wislocki, G. B. 34
Wolf, R. C. 34, 49
Wyshak, G. H. 45
Yen, P. K. 44
Zamecnik, P. C. 38

* Faculty of the School of Public Health.

SCHOOL OF DENTAL MEDICINE

STUDENTS 1956–1957

Fourth Class

Budde, Norman Thomas, B.A. (*New York Univ.*) 1952. *Glen Cove, N. Y.*
‡Cushing, Charles Richmond (*Univ. of Maine*). *Bangor, Maine*
Grossman, Richard Charles, B.A. (*Univ. of California at Los Angeles*) 1953. *Los Angeles, Calif.*
Hall, Hugh David, B.S. (*Univ. of Oklahoma*) 1953. *Oklahoma City, Okla.*
Kaye, Harold, B.A. (*Yale Univ.*) 1953. *New Haven, Conn.*
Kochanowsky, Lester, B.S. (*Teachers Coll. of Connecticut*) 1943, M.A. (*Trinity Coll.*) 1951. *New Britain, Conn.*
Korchek, David Lee, B.A. (*Univ. of California at Los Angeles*) 1951, M.A. (*ibid.*) 1953. *Los Angeles, Calif.*
*Laufer, Max [D.D.S., *Univ. of Munich Dental School*, Germany, 1932]. *Syracuse, N. Y.*
McGeown, John Roland, B.S. (*Fordham Univ.*) 1953. *Teaneck, N. J.*
Pross, Arnold, A.B. (*Columbia Univ.*) 1954. *Bronx, N. Y.*
Rosenberg, Earle Harold, A.B. 1951, A.M. (*Boston Univ.*) 1953. *Brookline*
Toy, Benjamin Leon, A.B. 1948. *Brighton*
Zackin, Susman Jerome, B.A. (*Wesleyan Univ.*) 1953. *Waterbury, Conn.*

Third Class

Beck, Joseph Fledel, M.A. (*Univ. of Breslau*) 1946 [*Univ. of Nebraska Coll. of Medicine*]. *Newton*
Cohen, Carl Greenfield, A.B. (*Univ. of California at Los Angeles*) 1954. *Far Rockaway, N. Y.*
Gold, Bernard Donald, A.B. (*New York Univ.*) 1952. *Brooklyn, N. Y.*
Goldberg, Morton Harold, B.S. (*Univ. of Massachusetts*) 1954. *Springfield*
Keller, Andrew Zellus, B.S. (*Morehouse Coll.*) 1949. *Chattanooga, Tenn.*
Leach, Leon Benjamin, A.B. (*Brown Univ.*) 1952, M.S. (*Univ. of Rhode Island*) 1954. *Providence, R. I.*
Nalbandian, John, A.B. (*Brown Univ.*) 1954. *Cranston, R. I.*
Oakley, Joseph Carter, A.B. 1954. *Bardstown, Ky.*
‡Safian, Nathan Abram (*Richmond Coll.*). *Portsmouth, Va.*
Saxe, Stanley Richard, A.B. (*Boston Univ.*) 1953. *Malden*
Schumer, Sheldon, B.A. (*Brooklyn Coll.*) 1951. *Brooklyn, N. Y.*
‡Stempien, James Henry, A.B. (*Yale Coll.*) 1955. *New Britain, Conn.*

‡ Admitted on basis of three years' college work.
*Transferred to third class.

Tingey, William Horne, Jr., B.S. (*Univ. of Utah*) 1952. *Salt Lake City, Utah*
Trabitz, Barry David, B.S. (*Purdue Univ.*) 1954. *Brooklyn, N. Y.*

Second Class

Ash, Homer Lee, B.S. (*Univ. of Illinois*) 1951. *Huntington, W. Va.*
Bauer, Peter William, B.A. (*Yale Univ.*) 1955. *New Britain, Conn.*
Dewan, Otis Kyron, Jr., A.B. 1955. *Whitesboro, N. Y.*
Douglas, Joel Paul, B.S. (*Univ. of Massachusetts*) 1955. *Haverhill*
Farbman, Albert Irving, A.B. 1955. *Revere*
Genua, Vincent Loreto, A.B. (*Brown Univ.*) 1955. *Waterbury, Conn.*
Gerber, Edward Michael, A.B. (*Boston Univ.*) 1954, M.A. (*ibid.*) 1955. *Boston*
Giddon, Donald Bernard, A.B. (*Brown Univ.*) 1952, M.A. (*Boston Univ.*) 1953. *Chestnut Hill*
Hain, James Neil, A.B. 1955. *Dorchester*
‡Hoover, Terrence David (*Franklin and Marshall Coll.*). *York, Pa.*
Kaplan, Samuel, B.M.E. (*City Coll. of New York*) 1950. *Bronx, N. Y.*
Maldonado, Alfred Anthony, B.S. (*Brooklyn Coll.*) 1954. *Brooklyn, N. Y.*
Prescott, Marvin Arthur, A.B. 1955. *Newport, R. I.*
Seifert, Donald Max, A.B. (*Brown Univ.*) 1955. *Bethel, Conn.*
Stern, Burt Donald, B.A. (*New York Univ.*) 1955. *Flushing, N. Y.*

First Class

Bortnick, Louis Saunder, A.B. (*Williams Coll.*) 1956. *Jamaica Plain*
‡Danovitch, Stuart Henry (*Harvard Coll.*). *Norwood*
Fasciano, Robert Walter, B.S. (*Tufts Univ.*) 1956. *Somerville*
‡Fischman, Stuart Lee (*Cornell Univ.*). *Buffalo, N. Y.*
Giordano, Russell Anthony, B.A. (*Univ. of Connecticut*) 1956. *New London, Conn.*
Kenler, Kermit Lester, B.A. (*Washington and Jefferson Coll.*) 1956. *New Bedford*
Kimball, Peter Gray, A.B. (*Hamilton Coll.*) 1956. *Marblehead*
‡Morin, Edward Marshall (*Clark Univ.*). *Worcester*
Palmer, David Wayne, A.B. (*Hamilton Coll.*) 1956. *Batavia, N. Y.*
Prifty, Robert James, A.B. (*Brown Univ.*) 1956. *Waterbury, Conn.*
Rosenthal, Edward, A.B. 1956. *Dorchester*
Sheffer, Joseph, A.B. (*Brown Univ.*) 1956. *Chestnut Hill*
Shulman, Leonard Burton, A.B. 1955. *Brighton*
‡Sudikoff, Norman (*Dartmouth Coll.*). *Chelsea*

SUMMARY 1956–57

Fourth Class	13
Third Class	14
Second Class	15
First Class	14
Total	56

AIR VIEW OF THE HARVARD MEDICAL-DENTAL AREA. THE DENTAL INFIRMARY IS TO THE LEFT ON THE FAR SIDE OF LONGWOOD AVENUE (HORIZONTAL) THE MEDICAL SCHOOL ENCIRCLES THE GREEN

ACADEMIC CALENDAR FOR 1957–58

Thursday, July 4	Independence Day: a holiday
Monday, September 2	Labor Day: a holiday
Friday, September 13	Registration for 1st and 2nd year classes
Monday, September 16	*Academic year* begins for 1st and 2nd year classes
Monday, September 23	Registration for 3rd and 4th year classes
	Academic year begins for 3rd and 4th year classes
Friday, October 4	Last day for filing applications for scholarships for 1957–58
Saturday, October 12	Columbus Day: a holiday
Monday, November 11	Veterans' Day: a holiday
Thursday, November 28	Thanksgiving Day: a holiday
December 22, 1957–January 5, 1958 (inclusive)	Recess for all classes
January 20–25	Examination period for 1st year class
Monday, January 27	*Second half year* begins for 1st and 2nd year classes
Friday, February 7	Last day for filing applications for University and general scholarships for 1958–59
Saturday, February 22	Washington's Birthday: a holiday
March 30–April 6 (inclusive)	Recess for 3rd and 4th year classes
Tuesday, April 1	Last day for receiving applications of candidates for the D.M.D. degree in June 1958
April 13–20 (inclusive)	Recess for 1st and 2nd year classes
Saturday, April 19	Patriot's Day: a holiday
Friday, May 30	Memorial Day: a holiday
Saturday, May 31	Class Day
June 2–7	Examination period for 1st and 2nd year classes
Thursday, June 12	Commencement